

Title (en)

Device for coherently combining laser beams

Title (de)

Vorrichtung zur kohärenten Addition von Laserstrahlen

Title (fr)

Dispositif d'addition cohérente de faisceaux laser

Publication

EP 0436411 B1 19960424 (FR)

Application

EP 90403346 A 19901127

Priority

FR 8915878 A 19891201

Abstract (en)

[origin: US5121400A] Device for coherent addition of laser beams including several optical amplifiers in parallel pumped by a beam coming from a master laser. The beams emitted by these amplifiers are transmitted to a non-linear material and play the role of pump beams. The non-linear material also receives a signal beam derived from the master laser. The various beams of the amplifiers are therefore added in the non-linear material along the direction of the signal beam.

IPC 1-7

H01S 3/23

IPC 8 full level

G02F 1/39 (2006.01); **H01S 3/23** (2006.01)

CPC (source: EP US)

G02F 1/397 (2013.01 - EP US); **H01S 3/2383** (2013.01 - EP US)

Cited by

JPH0629605A; US5373526A; EP0571126A3

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

EP 0436411 A1 19910710; **EP 0436411 B1 19960424**; DE 69026696 D1 19960530; DE 69026696 T2 19960919; FR 2655435 A1 19910607; FR 2655435 B1 19920221; US 5121400 A 19920609

DOCDB simple family (application)

EP 90403346 A 19901127; DE 69026696 T 19901127; FR 8915878 A 19891201; US 62003290 A 19901130